| L<br>Number | Hits  | Search Text   | DB   | Time stamp                      |
|-------------|-------|---|--|---------------------------------|
| 1           | 147   | <pre>(microneeddle\$4 or (micro adj needle\$4)) and (substrate or support)</pre>  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB                | 2003/09/22<br>16:47             |
| 2           | 10927 | (printer or nozzle or ink) with substrate and support   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                           | 2003/09/22<br>16:48             |
| 3           | 755   | printer with (nozzle or ink) with substrate and support   | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                | 2003/09/22<br>16:48             |
| 4           | 755   | printer with (nozzle or ink) with substrate and support   | IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM TDB                    | 2003/09/22<br>16:48             |
| 5           | 257   | printer with (nozzle or ink) with substrate and support and array   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB                | 2003/09/22<br>16:50             |
| 6           | 61    | substrate and support and array and etch  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB                | 2003/09/22<br>16:50             |
| 7           | 127   | printer with (nozzle or ink) with substrate and support and array and etch\$4   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB                | 2003/09/22<br>16:50             |
| 13          | 52    | 424/449,483.ccls. and array\$4  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB                | 2003/09/22<br>16:56             |
| 15          | 123   | 216//75,100,102.ccls. and array\$4  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB                | 2003/09/22 17:14                |
| 16          | 6     | ("5406573"   "5998298"   "6145342"  <br>"6163638"   "6291797"   "6358854"  <br>"2001/0055831").PN.  | USPAT  | 2003/09/22<br>17:00             |
| 17          | 15    |   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB                | 2003/09/22<br>17:14             |
| -           | 202   | microneeddle\$4 or (micro adj needle\$4)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB                | 2003/09/22<br>16:38             |
| -           | 1     | 6177291.URPN.   | USPAT  | 2002/10/30<br>11:33             |
| -           | 14    | ("4604637"   "5102832"   "5110760"  <br>"5112773"   "5204280"   "5227322"  <br>"5240558"   "5244828"   "5244842"  <br>"5256587"   "5308786"   "5427974"  <br>"5427977"   "5466626").PN. | USPAT  | 2002/10/30<br>11:34             |
|             | 4798  | 604/272,20,191,22,35,46,501,506,181,183,23  | 9 <b>98BAT1</b> 91,18<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM TDB | <b>62.0002</b> /£11/02<br>15:33 |

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| _ | 1953 | 604/272,20,191,22,35,46,501,506,181,183,23<br>and (needle or array)  | US-PGPUB;<br>EPO; JPO;   | © 0002/\$L0/31<br>09:09 |
|---|------|--|--|-------------------------|
| - | 2013 | 604/272,20,191,22,35,46,501,506,181,183,23<br>and (needle\$4 or array\$4)  | DERWENT;<br>IBM_TDB<br>9 <b>989AT1</b> 91,18<br>US-PGPUB;<br>EPO; JPO; | 62.0022/s10/31<br>09:09 |
| - | 220  | 604/272,20,191,22,35,46,501,506,181,183,23<br>and needle\$4 and array\$4   | DERWENT;<br>IBM TDB  | 620097/s10/31<br>09:13  |
| - | 221  | 604/272,20,191,22,35,46,501,506,181,183,23<br>and \$8needle\$4 and array\$4  | DERWENT;<br>IBM_TDB  | © 00021/s10/31<br>09:38 |
| - | 0    | 291/890.01,890.1.ccls.   | DERWENT;<br>IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;                | 2003/09/22<br>16:55     |
| - | 1432 | 424/449,483.ccls.  | DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;                            | 2003/09/22<br>16:56     |
| - | 1179 | 216//75,100,102.ccls.  | DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;                            | 2003/09/22<br>16:58     |
| - | 35   | ("3964482"   "4381963"   "4784737"   "5156591"   "5162043"   "5250023"   "5256360"   "5279544"   "5318557"   "5362307"   "5498235"   "5527288"   "5551953"   "5591139"   "5611806"   "568515"   "5681580"   "5704520"   "5711761"   "5730714"   "5735273"   "5771890"   "5800420"   "5807375"   "5814020"   "5820622"   "5827183"   "5848985"   "5848990"   "5848991"   "5855801"   "6023629"   "6038485"   "6047208"   "6129696").PN. | DERWENT;<br>IBM_TDB<br>USPAT   | 2002/11/02<br>11:48     |
| _ | 723  | 29/890.01,890.1.ccls.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                           | 2002/11/02 11:59        |
| - | 25   | 29/890.01,890.1.ccls. and \$9needle\$2   | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;                | 2002/11/02 13:11        |
| - |      | "6334856"  | IBM_TDB<br>USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB     | 2002/11/02 13:11        |

| _  | 42   | ("2893392"   "3034507"   "3086530"  <br>  "3123212"   "3136314"   "RE25637" | USPAT              | 2002/11/02<br>13:14 |
|----|------|---|--------------------|---------------------|
|    |      | "3221739"   "3221740"   "3556080"   |                    |                     |
|    |      | "3596660"   "3675766"   "3918449"   |                    |                     |
|    |      | "3964482"   "4109655"   "4159659"   |                    | ]                   |
|    |      | "4222392"   "4771660"   "4798582"   |                    |                     |
|    |      | "4921475"   "4969468"   "5054339"   |                    |                     |
|    |      | "5138220"   "5250023"   "5279544"   |                    |                     |
|    |      | "5279552"   "5335670"   "5364374"   |                    |                     |
|    |      | "5383512"   "5401242"   "5457041"   |                    |                     |
|    |      | "5527288"   "5582184"   "5591139"   |                    |                     |
|    |      | "5611806"   "5611809"   "5618295"   |                    | 1                   |
|    |      | "5658515"   "5697901"   "5801057"   |                    |                     |
|    |      | "5843114"   "5879326"   "6050988").PN.                                      |                    |                     |
| _  | 133  | 424/449,483.ccls. and \$9needle\$4  | USPAT;             | 2002/11/02          |
|    |      |   | US-PGPUB;          | 14:38               |
|    |      |   | EPO; JPO;          |                     |
|    |      |   | DERWENT;           |                     |
|    |      |   | IBM_TDB            |                     |
| -  | 27   | 216//75,100,102.ccls. and \$9needle\$4                                      | USPAT;             | 2002/11/02          |
|    |      |   | US-PGPUB;          | 14:38               |
|    |      |   | EPO; JPO;          |                     |
|    |      |   | DERWENT;           |                     |
|    |      |   | IBM_TDB            |                     |
| -  | 7    | ("3814097"   "3964482"   "5279543"  | USPAT              | 2002/11/02          |
|    |      | "5279544"   "5983136"   "6219574"   |                    | 15:09               |
|    |      | "6230051").PN.  |                    |                     |
| -  | 7    |   | USPAT              | 2002/11/02          |
|    |      | "5279544"   "5983136"   "6219574"   |                    | 15:09               |
|    |      | "6230051").PN.  |                    | 0000/11/20          |
| -  | 515  | 604/272.ccls.   | USPAT;             | 2002/11/02          |
|    |      |   | US-PGPUB;          | 15:35               |
|    |      |   | EPO; JPO;          |                     |
|    |      |   | DERWENT;           |                     |
|    | 05.5 |   | IBM_TDB            | 2002/11/02          |
| -  | 956  | Frazier.in.   | USPAT;             | 2002/11/02          |
|    |      |   | US-PGPUB;          | 15:36               |
|    |      |   | EPO; JPO; DERWENT; |                     |
|    |      |   | IBM TDB            |                     |
|    | 368  | migropoodlo\$2  | USPAT;             | 2002/11/02          |
| 1- | 368  | microneedle\$2  | US-PGPUB;          | 16:04               |
|    |      |   | EPO; JPO;          | 10.04               |
|    |      |   | DERWENT;           |                     |
|    |      |   | IBM TDB            |                     |
| _  | 3    | "6193700"   | USPAT;             | 2002/11/02          |
|    |      |   | US-PGPUB;          | 16:04               |
|    |      |   | EPO; JPO;          | - 3. 7.             |
|    |      |   | DERWENT;           |                     |
|    |      |   | IBM TDB            |                     |